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Professional Experience

- 2/10 - present Scientist I, Fermi National Accelerator Laboratory
MINER ν A: Project Manager and Co-spokesperson;
- 9/05 - 1/10 Scientist I, Fermi National Accelerator Laboratory
MINER ν A: Project Manager; Institutional Board Chair, Chair of
Executive Committee;
- 9/99 - 9/05 Associate Scientist, Fermi National Accelerator Laboratory
MINOS: Secondary Beamline Monitoring Development, Convenor
of Near Detector Physics Analysis Group, Safety Review Co-
ordinator, Primary Beamline Instrumentation Coordinator
(as of 12/2003);

Superbeam, Neutrino Detector, and Neutrino Factory Feasability
Studies;
- 4/94 - 8/99 Postdoctoral Research Fellow, University of Rochester
FNAL-E815 (NuTeV): data quality monitoring and analysis for
precision electroweak measurements and neutrino oscillation
searches; Coordination of the NuTeV calibration beam; mag-
netic field simulations; veto system construction

FNAL-E770/744 (CCFR): Gross Llewellyn Smith Sum Rule Anal-
ysis; Contribution to Structure Function Analysis
- 6/90 - 3/94 Graduate Research Assistant, University of Chicago
FNAL-E773/E799: Design and Construction of Barium Fluoride
Calorimeter as prototype for KTeV and as beam-hole
calorimeter for E799, measurement of $\text{BR}(K_L \rightarrow \pi^0 \ell^+ \ell^-)$
- 9/89 - 1/91 Graduate Teaching Assistant, University of Chicago
Held discussion sessions for introductory physics classes (and lab-
oratory sessions) for both physics majors and non-physics
majors

5/88-9/88, 5/89-9/89 Undergraduate Research Assistant
 Lawrence Berkeley Laboratory
 Tested D0 Endplug Calorimeter prototype (1988) and
 D0 Vertex Detector (1989)

1/1987 - 12/1987 Undergraduate Research Assistant
 Newman Laboratory, Cornell University
 Wired vertex detector and tested electronics for Fermilab E710.

5/86-8/86 Summer Student Employee
 Fermi National Accelerator Laboratory
 Wired and tested CDF Vertex Time Proportional Chambers.

Degrees

Ph.D., June 1994, Physics, Thesis supervisor: Prof. Yau Wah, "A Search
 for the Decays $K_L \rightarrow \pi^0 \ell^+ \ell^-$ " University of Chicago, Chicago, IL

M.Sc., June 1992, Physics, University of Chicago, Chicago, IL

A.B., May 1989, University of California at Berkeley Physics

Honors

Graduate Assistants in Area of National Need Fellowship, Department of
 Education, 1990-1992

Gregor Wenzel Prize for Undergraduate Teaching, University of Chicago,
 1990

University Research Associates Scholarship, 1985-1989

Journal Publications

Review Articles

1. "Physics Opportunities at Neutrino Factories", J.J. Gomez-Cadenas and D.A.Harris, *Ann. Rev. Nucl. Part. Sci.* **52** 253 (2002)

Future Projects

2. "Neutrino scattering uncertainties and their role in long baseline oscillation experiments" By MINERvA Collaboration (Deborah A. Harris et al.). FERMILAB-PUB-04-252-E, JLAB-PHY-04-52, Oct 2004. 18pp. e-Print: [hep-ex/0410005](#)
3. "Proposal to Perform a High-Statistics Neutrino Scattering Experiment Using a Fine-grained Detector in the NuMI Beam" (Minerva Proposal) December 2003 submitted to the Fermilab PAC
4. "Letter of Intent to Build an Off-Axis Detector to Study $\nu_\mu \rightarrow \nu_e$ Oscillations with the Numi Neutrino Beam", [hep-ex/0210005](#)
5. "NOvA: Proposal to build a 30 kiloton off-axis detector to study $\nu_\mu \rightarrow \nu_e$ oscillations in the NuMI beamline" By NOvA Collaboration (D.S. Ayres et al.). FERMILAB-PROPOSAL-0929, Mar 2004. : [hep-ex/0503053](#)
6. "The NOvA Technical Design Report" By NOvA Collaboration (D.S. Ayres et al.). FERMILAB-DESIGN-2007-01, Oct 8, 2007.
7. "Detector R& D For Future Neutrino Experiments with the Numi Beamline", report to Fermilab Directorate from the Study Group on Future Neutrino Experiments at Fermilab [hep-ex/0304017](#)
8. "Coherent neutrino-nucleus scattering and the MINERvA experiment" H. Gallagher (Tufts U.) , Deborah Harris (Fermilab) . FERMILAB-CONF-07-735-E, 2007. AIP Conf.Proc.967:158-161,2007
9. "Fermilab Steering Group Report" By The Fermilab Steering Group (Eugene Beier et al.). FERMILAB-PUB-07-672-DO, Dec 2007.
10. "Proposal for continuously-variable neutrino beam energy for the NuMI facility" Mikhail Kostin, Sacha Kopp (Texas U.) , Mark Messier (Harvard U.) , Deborah A. Harris, Jim Hylen, Adam Para (Fermilab) . FERMILAB-TM-2353-AD, Jul 2006.
11. "Physics Potential At Fnal With Stronger Proton Sources", G.Barenboim *et al*, [hep-ex/0206025](#), FERMILAB-FN-0720 June 2002
12. "Snowmass E1 working group summary: Neutrino factories and muon colliders," T. Adams *et al.*, [hep-ph/0111030](#), to appear in the proceedings of the Snowmass Conference on Future Directions in High Energy Physics, July 2001.
13. "Oscillation measurements with upgraded conventional neutrino beams," V. D. Barger *et al.*, [hep-ph/0103052](#).
14. I. I. Bigi *et al.*, "The potential for neutrino physics at muon colliders and dedicated high current muon storage rings," *Phys. Rep.* **371** 151 (2002).
15. "A Feasibility Study of a Neutrino Source based on a Muon Storage Ring," T. Anderson *et al.* , FERMILAB-PUB-00-108-E, Jun 2000.
16. "Physics at a Neutrino Factory," C. Albright *et al.* , FERMILAB-FN-692, [hep-ex/0008064](#), May 2000.

MINOS

17. "Search for sterile neutrino mixing in the MINOS long baseline experiment" MINOS Collaboration (P. Adamson *et al.*) FERMILAB-PUB-09-650-E, Jan 2010. Submitted to Phys.Rev.D
18. "Neutrino and Antineutrino Inclusive Charged-current Cross Section Measurements with the MINOS Near Detector". MINOS Collaboration (P. Adamson *et al.*) FERMILAB-PUB-09-468-E, arXiv:0910.2201 [hep-ex] Submitted to Phys. Rev. D
19. "Search for muon-neutrino to electron-neutrino transitions in MINOS" MINOS Collaboration (P. Adamson *et al.*) Phys. Rev. Lett. **103** 261802 (2009)
20. "First Measurement of $\nu(\mu)$ and $\nu(e)$ Events in an Off-Axis Horn-Focused Neutrino Beam". By MiniBooNE and Minos Collaboration (P. Adamson *et al.*). Phys. Rev. Lett. **102** 211801 (2009)
21. "Testing Lorentz Invariance and CPT Conservation with NuMI Neutrinos in the MINOS Near Detector" MINOS Collaboration (P. Adamson *et al.*). Phys. Rev. Lett. **101** 151601 (2008)
22. "Search for active neutrino disappearance using neutral-current interactions in the MINOS long-baseline experiment". MINOS Collaboration (P. Adamson *et al.*). Phys. Rev. Lett. **101** 221804 (2008)
23. "Measurement of Neutrino Oscillations with the MINOS Detectors in the NuMI Beam" MINOS Collaboration (P. Adamson *et al.*) Phys. Rev. Lett. **101** 131802 (2008)
24. "Measurement of neutrino velocity with the MINOS detectors and NuMI neutrino beam" By MINOS Collaboration (P. Adamson *et al.*). Phys. Rev. **D76** 072005 (2007)
25. "Measurement of the atmospheric muon charge ratio at TeV energies with MINOS" By MINOS Collaboration (P. Adamson *et al.*). Phys. Rev. **D76** 052003 (2007)
26. "Charge-separated atmospheric neutrino-induced muons in the MINOS far detector" By MINOS Collaboration (P. Adamson *et al.*). Phys. Rev. **D75** 092003 (2007).
27. "Beam-Based Alignment of the NuMI Target Station Components at FNAL" R. Zwaska et al. Nucl. Instrum. Meth.**A568** 548-560 (2006)
28. "Secondary beam monitors for the NuMI facility at FNAL" S. Kopp et al., Nucl. Instrum. Meth. **A568** 503-519 (2006)
29. "Observation of muon neutrino disappearance with the MINOS detectors and the NuMI neutrino beam" D. G. Michael *et al.* , Phys. Rev. Lett.**97** 191801 (2006)
30. "Study of neutron-induced ionization in helium and argon chamber gases" D. Indurthy (Texas U.) , A.R. Erwin (Wisconsin U., Madison) , Deborah A. Harris (Fermilab) , S.E. Kopp, M. Proga, R.M. Zwaska (Texas U.) . Nucl. Instrum. Meth. **A528** 731-740 (2004)
31. "First observations of separated atmospheric $\nu(\mu)$ and anti- $\nu(\mu)$ events in the MINOS detector" By MINOS Collaboration (P. Adamson et al.). FERMILAB-PUB-05-525, Dec 2005. Phys. Rev. **D73** 072002 (2006).
32. "Beam Tests of Ionization Chambers for the Numi Neutrino Beam" R.M.Zwaska *et al*, hep-ex/0212011, IEEE Trans. Nucl. Sci. **50** 1129-1135 (2003)

33. "The Minos Scintillator Calorimeter System", P.Adamson *et al*, IEEE Trans.Nucl.Sci.**49** 861 (2002)

NuTeV/CCFR

34. "Measurement of the Nucleon Strange-Antistrange Asymmetry at Next-to-Leading Order in QCD from NuTeV Dimuon Data" D. Mason *et al*, FERMILAB-PUB-07-734, Nov 2007. Phys. Rev. Lett.**99** 192001 (2007)
35. "Precise measurement of neutrino and anti-neutrino differential cross sections" By NuTeV Collaboration (M. Tzanov *et al.*). Phys. Rev. **D74** 012008 (2006).
36. "Reply to the Comment On 'A Precise Determination Of Electroweak Parameters In Neutrino Nucleon Scattering' ", G.P. Zeller *et al*, submitted to Phys. Rev. Lett. hep-ex/0207052
37. "Search for Light-To-Heavy Quark Flavor Changing Neutral Currents In ν_μ N and $\bar{\nu}_\mu$ N Scattering", A. Alton *et al*, Int.J.Mod.Phys.**A16S1B** 489 (2001)
38. "On the Effect of Asymmetric Strange Seas and Isospin Violating Parton Distribution Functions on $\sin^2 \theta_W$ Measured in the NuTeV Experiment", G.P.Zeller *et al*, Phys. Rev. bf D65 111103 (2002)
39. "A Precise Determination Of Electroweak Parameters In Neutrino Nucleon Scattering " G.P.Zeller *et al*, Phys. Rev. Lett.**88** 091802 (2002)
40. "Extraction Of $R = \sigma(L)/\sigma(T)$ from CCFR Fe- ν_μ and Fe- $\bar{\nu}_\mu$ Differential Cross-Sections", U.K.Yang *et al*, Phys. Rev. Lett.**87** 251802 (2001)
41. "Observation of an Anomalous Number of Dimuon Events in a High-Energy Neutrino Beam", T. Adams *et al*, Phys. Rev. Lett. **87** 041801 (2001)
42. "Search for the Lepton Number Violating Process $\bar{\nu}_\mu e^- \rightarrow \mu^- \bar{\nu}_e$ ", J.A.Formaggio *et al*, Phys. Rev. Lett. **87** 071803 (2001)
43. "Precise Measurement of Dimuon Production Cross-Sections in ν_μ Fe and $\bar{\nu}_\mu$ Fe Deep Inelastic Scattering at the Tevatron" M.Goncharov *et al*, Phys. Rev. **D64** 112006 (2001)
44. "A First Measurement of Low x Low Q^2 Structure Functions in Neutrino Scattering" B.T. Fleming *et al*, Phys. Rev. Lett. **86** 5430 (2001)
45. "Measurements of F_2 and $xF_3^\nu - xF_3^{\bar{\nu}}$ from CCFR ν_μ Fe and $\bar{\nu}_\mu$ Fe Data in a Physics Model Independent Way" U.K. Yang *et al*, Phys. Rev. Lett. **86** 2742 (2001)
46. "Observation of Neutral Current Charm Production in ν_μ Fe Scattering at the Tevatron" A. Alton *et al*, Phys. Rev. **D64** 012001 (2001)
47. "Search for a $33.9 MeV/c^2$ Neutral Particle in Pion Decay", J.A.Formaggio *et al.*, Phys. Rev. Lett. **84** 4043 (2000).
48. "Low Q^2 Low x Structure Function Analysis of CCFR Data for F_2 ", B. Tamminga *et al.*, Nucl. Phys. **A663** 344 (2000).
49. "Precision Calibration of the NuTeV Calorimeter", D.A.Harris, J.Yu *et al.*, Nucl. Instrum. Meth. **A447** 377 (2000).
50. "Evidence for Diffractive Charm Production in ν_μ Fe and $\bar{\nu}_\mu$ Fe Scattering at the Tevatron", Phys. Rev. **D61** 092001 (2000).
51. "Investigating Nucleon Structure at the Tevatron", D.A.Harris, Nucl. Phys. **A666** 149 (2000).

52. "Search for Neutral Heavy Leptons in a High Energy Neutrino Beam", A. Vaitaitis *et al.*, Phys. Rev. Lett. **83** 4943 (1999).
53. "Performance of the NuteV Fe-Scintillator Sampling Calorimeter and Implications for Thin Calorimeters" S. Avvakumov *et al.*, Nucl.Phys.Proc.Suppl.**78** 232 (1999).
54. "A Measurement of $\alpha_s(Q^2)$ from the Gross-Llewellyn Smith Sum Rule" J.H.Kim, D.A.Harris *et al.*, Phys. Rev. Lett. **81** 3595 (1998).
55. "A High Statistics Search for $\nu_e \bar{\nu}_e \rightarrow \nu_\tau \bar{\nu}_\tau$ Oscillations", submitted to JINR Rapid Communications hep-ex/9809023 (1998).
56. "Measurements of R_{Long} and $|V_{cs}|$ from the CCFR Experiment", C. McNulty *et al.*, to be submitted to Phys. Rev. Lett.
57. "Improved Determination of α_s from Neutrino-Nucleon Scattering", W.G. Seligman *et al.*, Phys. Rev. Lett. **79**, 1213 (1997).
58. "A Precision Measurement of Electroweak Parameters in Neutrino - Nucleon Scattering" By K.S.McFarland *et al.*, Eur.Phys.J.C1:509-513,1998
59. "Tests of a Calorimetric Technique for Measuring the Energy of Cosmic Ray Muons in the TeV Energy Range", A.P. Chikkatur *et al.*, Z. Phys. **C74**,279 (1997).
60. "A High Statistics Search for $\nu_\mu(\bar{\nu}_\mu) \rightarrow \nu_e(\bar{\nu}_e)$ Oscillations in the Small Mixing Angle Regime", A. Romosan *et al.*, Phys. Rev. Lett. **78**, 2912 (1997).
61. "A Measurement of $R = \sigma_L/\sigma_T$ in Deep Inelastic Neutrino-Nucleon Scattering at the Tevatron", U.K. Yang *et al.*, J. Phys. **G22**,775, (1996).
62. "Limits on $\nu_\mu \rightarrow \nu_\tau$ and $\nu_\mu \rightarrow \nu_e$ Oscillations From a Precision Measurement of νN Neutral-Current Interactions", K.S. McFarland, D. Naples, *et al.*, Phys. Rev. Lett. **75**, 3993 (1995).

FNAL-E773/E799

63. "Search for the Lepton-Family Number Violating Decays $K_L \rightarrow \pi^0 \mu^\mp e^\pm$ ", K.Arisaka, *et al.*, Phys. Lett. **B432**, 230 (1998).
64. "First Evidence for the Decay $K_L \rightarrow e^+ e^- \mu^+ \mu^-$ ", P. Gu *et al.*, Phys. Rev. Lett. **76**, 4312 (1996).
65. "A New Measurement of the CP-violating Parameter $\eta_{+-\gamma}$ ", J.N. Matthews *et al.*, Phys. Rev. Lett. **75**, 2803 (1995)
66. "CPT Tests in the Neutral Kaon System", B. Schwingenheuer, R.A. Briere *et al.*, Phys. Rev. Lett. **74**, 4376 (1995).
67. "A Measurement of the Branching Ratio and Form-Factor of $K_L \rightarrow \mu^+ \mu^- \gamma$ " M.B. Spencer *et al.*, Phys. Rev. Lett. **74**, 3323 (1995).
68. "A Measurement of the Branching Ratio of $K_L \rightarrow e^+ e^- \gamma \gamma$ ", T. Nakaya *et al.*, Phys. Rev. Lett. **73**, 2169 (1994).
69. "Search for the Decay $K_L \rightarrow \pi^0 \pi^0 \gamma$ ", D. Roberts *et al.*, Phys. Rev. **D50**, 1874 (1994).
70. "A Limit on the Branching Ratio of $K_L \rightarrow \pi^0 \nu \bar{\nu}$ ", M. Weaver *et al.*, Phys. Rev. Lett. **72**, 3758 (1994).
71. "A Measurement of the Branching Ratio and a Study of CP for the Leptonic Decay $K_L \rightarrow e^+ e^- e^+ e^-$ ", P. Gu *et al.*, Phys. Rev. Lett. **72**, 3000 (1994).

72. "A Limit on the Lepton-Family Number Violating Process $\pi^0 \rightarrow \mu e$ ", P. Krolak *et al.*, Phys. Lett. **B320**, 407 (1994).
73. "Polarization of Lambda and Anti-Lambda Produced by 800-GeV Protons", E.J. Ramberg *et al.*, Phys. Lett. **B338**, 403 (1994).
74. "NuTeV Beam Design Report", R. Bernstein *et al.*, Fermilab-TM-1884 (April 1994).
75. "A Limit on the Branching Ratio of $K_L \rightarrow \pi^0 \mu^+ \mu^-$ ", D.A. Harris *et al.*, Phys. Rev. Lett. **71**, 3914 (1993).
76. "A Limit on the Branching Ratio of $K_L \rightarrow \pi^0 e^+ e^-$ ", D.A. Harris *et al.*, Phys. Rev. Lett. **71**, 3918 (1993).
77. "A Measurement of the Branching Ratio of $\pi^0 \rightarrow e^+ e^-$ Using Decays in Flight of $K_L \rightarrow \pi^0 \pi^0 \pi^0$ ", K.S. McFarland *et al.*, Phys. Rev. Lett. **71**, 31 (1993).

Conference and Summer School Proceedings

1. "Long Baseline Neutrino Oscillation Phenomenology", Deborah A. Harris, FERMILAB-CONF-09-680-E, March 2010, 6pp. Presented at the 11th International Workshop on Neutrino Factories, Superbeams and Betabeams: NuFact09, Chicago, July 20-25, 2009.
2. "Project X and its connection to neutrino physics" Deborah Harris and Andreas Jansson, (Fermilab) . FERMILAB-CONF-08-503-APC-PPD, Oct 2008. 8pp. Presented at 10th International Workshop on Neutrino Factories, Superbeams and Betabeams: NuFact08, Valencia, Spain, 30 June - 5 July 2008. Published in PoS NUFAC08:012,2008.
3. "Neutrino physics" Deborah A. Harris, (Fermilab) . FERMILAB-CONF-08-328-E, Sep 2008. 11pp. Presented at 16th International Workshop on Deep Inelastic Scattering and Related Subjects (DIS 2008), London, England, 7-11 Apr 2008. Published in *London 2008, Deep inelastic scattering*
4. "Accelerator-based neutrino oscillation experiments" Deborah A. Harris, (Fermilab) . FERMILAB-CONF-07-638-E, Dec 2007. 34pp. Submitted as lecture writeup for three lectures given at the 61st Scottish Universities Summer School in Physics, St. Andrews, Scotland, 8- 23 August 2006.
5. "Systematic errors in long baseline oscillation experiments" Deborah A. Harris (Fermilab) . FERMILAB-CONF-06-025-E, Feb 2006. 6pp. Presented at 4th International Workshop on Neutrino-Nucleus Interactions in the Few-GeV Region (NuInt05), Okayama, Japan, 26-29 Sep 2005. Nucl. Phys. Proc. Suppl.**159** 9-14 (2006)
6. "The MINOS and NOvA Experiments" By MINOS and NOvA Collaborations (Deborah A. Harris for the collaboration). 2005. 4pp. Prepared for 6th International Workshop on Neutrino Factories and Superbeams (NuFact 04), Osaka, Japan, 26 Jul - 1 Aug 2004. Published in Nucl.Phys.Proc.Suppl.149:150-153,2005.
7. "Superbeam experiments" Deborah A. Harris (Fermilab) . 2005. 5pp. Prepared for 6th International Workshop on Neutrino Factories and Superbeams (NuFact 04), Osaka, Japan, 26 Jul - 1 Aug 2004. Published in Nucl.Phys.Proc.Suppl.149:34-38,2005.

8. "Oscillation measurements with calorimeters: Why does NuINT matter?" Deborah A. Harris (Fermilab) . 2005. 6pp. Prepared for 3rd International Workshop on Neutrino Nucleus Interactions in the Few GeV Region (NuInt04), Gran Sasso, Assergi, Italy, 17-21 Mar 2004. Published in Nucl.Phys.Proc.Suppl.139:33-38,2005.
9. "Future Experiments with Neutrino Superbeams, Betabeams, and Factories", submitted to the proceedings of Lepton-Photon 2003, Batavia, August 2003, FERMILAB-CONF-03-328
10. "Prospects for Next Generation Long Baseline Oscillation Experiments", submitted to the proceedings of the 10th International Workshop on: "Neutrino Telescopes", Venice, March 2003
11. "Systematic uncertainties in Δm^2 from neutrino physics, using calorimetric E_ν reconstruction", submitted to the proceedings of NuINT02, Irvine, December 2002, FERMILAB-CONF-03-216
12. "Beam tests of ionization chambers for the NuMI neutrino beam" R.M.Zwaska *et al*, IEEE Trans. Nucl. Sci. **50** 1129, 2003.
13. "Prospects for Conventional Long-Baseline Oscillation Experiments and Comparison with a Neutrino Factory" submitted to the proceedings of the Neutrinos and Implications for Physics Beyond the Standard Model conference, Stony Brook, October 2002
14. "Oscillation Measurements from Accelerators: A Global Status Report" submitted to the proceedings of the Third Tropical Workshop on Particle Physics and Cosmology: Neutrinos, Branes and Cosmology, San Juan, August 2002
15. "Summary of Working Group 2", B.Autin, D.A.Harris, S.F.King, K.S.McFarland, O.Yasuda hep=ph/0302218, contributed to the 4th NuFact'02 Workshop (Neutrino Factories based on Muon Storage Rings) London, England, 1-6 Jul 2002
16. "NuFact02 Machine Working Group Summary" B.Autin, R.C.Fernow, S.Machida, D.A.Harris, contributed to the 4th NuFact'02 Workshop (Neutrino Factories based on Muon Storage Rings) London, England, 1-6 Jul 2002
17. "OFF THE MASS SHELL: ELECTROWEAK PHYSICS AT NUTEV" K.S.McFarland *et al*, submitted to the proceedings of 22nd Physics in Collision Conference (PIC 2002), Stanford, California, June 2002 hep-ex/0210010
18. "E1 Working Group Summary: Neutrino Factories and Muon Colliders" T.Adams *et al*, Prepared for APS / DPF / DPB Summer Study on the Future of Particle Physics (Snowmass 2001), Snowmass, Colorado, July 2001. Published in eConf **C010630:E** 1001 (2001)
19. "Report Of The Snowmass T4 Working Group On Particle Sources: Positron Sources, Anti-Proton Sources And Secondary Beams", N.Mokhov *et al*, Prepared for APS / DPF / DPB Summer Study on the Future of Particle Physics (Snowmass 2001), Snowmass, Colorado, July 2001. Published in eConf **C010630:T4001**,2001
20. "Flavor Decomposition Of Nucleon Structure At A Neutrino Factory" R.D.Ball, D.A.Harris, K.S.McFarland, hep-ph/0009223, submitted to the proceedings of NuFACT'00: International Workshop on Muon Storage Ring for a Neutrino Factory, Monterey, California, May 2000.
21. "Detector Construction Considerations from the Lyon Meeting", D.A.Harris, submitted to the proceedings of the 5th International Conference On Physics Potential And Development of Muon Colliders, San Francisco, CA 1999.

22. "Summary of Detector and Beam Parameters Working Group from Lyon", D.A.Harris, submitted to the proceedings of International Workshop On Next Generation Nucleon Decay And Neutrino Detector, Stony Brook, NY, 1999.
23. "Neutrino Oscillations at NuTeV", D.A.Harris *et al.*, Prepared for the proceedings of the International Europhysics Conference On High-Energy Physics, Tampere, Finland, 1999.
24. "Neutrino Oscillation Appearance Experiment using Nuclear Emulsion and Magnetized Iron", D.A.Harris and A.Para, Nucl.Instrum.Meth.**A451** 173 (2000)
25. "The Neutrino Factory: Beam and Experiments", A.Blondel *et al.*, CERN-EP-2000-053, Nucl. Instrum. Meth. **A451** 102 (2000)
26. "Measurements of F_2 , $xF_3^{\nu} - xF_3^{\bar{\nu}}$ from CCFR ν -Fe and $\bar{\nu}$ -Fe data in a model independent way", A.Bodek *et al.*, hep-ex/0005021, to be published in proceedings of QCD Moriond, 2000.
27. "Neutrino Oscillations at NuTeV", D.A.Harris *et al.*, submitted to the proceedings of the American Physical Society Meeting of the Division of Particles and Fields, Los Angeles, Jan. 1999.
28. "NuTeV through thick and thin", D.A.Harris *et al.*, UR-1560, to be submitted to the proceedings of the 1998 Workshop on Balloon-Borne and Space-Based Calorimetry, Lubbock, Texas, Oct. 1998.
29. "Measurements of the Longitudinal Structure Function and $|V_{cs}|$ in the CCFR experiment", U.K. Yang *et al.*, UR-1534, Submitted to the proceedings of the 6th International Workshop on Deep Inelastic Scattering and QCD (DIS 98), Brussels, Belgium, Apr. 1998.
30. " α_s from Deep Inelastic Scattering Experiments" D.A.Harris, Proceedings of 33rd Rencontres de Moriond: Electroweak Interactions and Unified Theories, France, Mar. 1998.
31. "Measurement of $\sin^2\theta_W$ from Neutrino Scattering at NuTeV" K.S.McFarland *et al.*, Proceedings of 33rd Rencontres de Moriond: Electroweak Interactions and Unified Theories, France, Mar. 1998.
32. "A Small Target Neutrino Deep Inelastic Scattering Experiment at The First Muon Collider" By D. A. Harris and K. S. McFarland, UR-1516 ER/4056/911, Proceedings from the Workshop on Physics at the First Muon Collider and at the Front End of the Muon Collider, Batavia, IL, (1997)
33. "Detectors for Neutrino Physics at the First Muon Collider" By D. A. Harris and K. S. McFarland, UR-1515 ER/4056/910, Proceedings from the Workshop on Physics at the First Muon Collider and at the Front End of the Muon Collider, Batavia, IL, (1997)
34. "Prospects for the Precision Measurement of α_s ", P.N.Burrows *et al.*, SLAC-PUB-7371. Presented at 1996 DPF/DPB Summer Study on New Directions for High Energy Physics (Snowmass 96) Colorado, 1996.
35. "Measurements of α_s from ν -N Deep Inelastic Scattering at CCFR", J. Yu for the CCFR/NuTeV Collaboration, Proceedings of the XXXII Rencontres de Moriond, Les Arcs, France, March 1997.
36. "Testing QCD at CCFR: Three Structure Functions at Once", D.A. Harris *et al.*, ICHEP 96 Proceedings, Warsaw, August 1996.

37. “Updated Electroweak Measurements from Neutrino-Nucleon Deeply Inelastic Scattering at CCFR”, K.S. McFarland *et al.*, Proceedings of the XXXI Rencontres de Moriond, Les Arcs, France, March 1996.
38. “A Measurement of $R = \sigma_L/\sigma_T$ in Deep Inelastic Neutrino-Nucleon Scattering at the Tevatron”, U.K. Yang *et al.*, Proceedings of the Durham Workshop on HERA Physics, Durham, September 1995
39. “A CCFR Measurement of R_ν ”, D. A. Harris *et al.* Proceedings of the EPS HEP '95 Conference, Brussels, October 1995.
40. “A Measurement of $\alpha_s(Q^2)$ from the Gross-Llewellyn Smith Sum Rule”, J.H. Kim, D.A. Harris *et al.*, Proceedings of the EPS HEP '95 Conference, Brussels, October 1995.
41. “Limits on $\nu_\mu \rightarrow \nu_\tau$ and $\nu_\mu \rightarrow \nu_e$ Oscillations From a Precision Measurement of νN Neutral-Current Interactions”, K.S. McFarland *et al.*, Proceedings of the EPS HEP '95 Conference, Brussels, October 1995.
42. “A Measurement of $\alpha_s(Q^2)$ from the Gross-Llewellyn Smith Sum Rule”, D.A. Harris *et al.*, Proceedings of the XXX Rencontres de Moriond, Les Arcs, France, March 1995.
43. “A Search for the Decays $K_L \rightarrow \pi^0 \ell^+ \ell^-$ ”, D.A. Harris, Proceedings of the EPS HEP '93 Conference, Marseilles, October 1993.

Conference and Summer School Presentations

- Minute Particulars and Hidden Symmetries: Quigg Symposium, Batavia, USA, December 2009, "Minutiae over Short and Long Distances: Neutrino Physics Today and Tomorrow"
- NuFact09, Chicago, USA, July 2009, "Long Baseline Neutrino Phenomenology"
- American Physical Society Meeting, Denver, USA, May 2009, Invited Talk: "MINERvA: Getting a Closer Look at Neutrinos"
- March 2009 Physics Advisory Committee Meeting, March 2009: "Near term Neutrino Projects: Physics and Project Status"
- NuFact08, Valencia, Spain, July 2008, "Project X and its Connection to Neutrino Physics"
- 2008 FRA Visiting Committee Meeting, April 2008 "Neutrino Program Overview"
- DIS08, London, England, April 2008, "Neutrino Physics"
- Summer Institute for NuFact07, Tsukuba, Japan, August 2007, α -YHigh Energy Neutrino Detectors and Experimental Strategies
- Weak Interactions and Neutrinos 2007, Kolkata, India, January 2007, MINOS and NOvA
- SUSSP61: Scottish Universities Summer School in Physics: Neutrinos, St. Andrews, Scotland, August 2006, Accelerator Neutrino Oscillation Physics
- Fourth Workshop on Neutrino-Nucleus Interactions in the few-GeV Region (NuINT05), Okayama, Japan, September 2005, α -YSystematic Errors in Long Baseline Experiments
- Summer Institute for NuFact05, Capri, Italy, June 2005, α -YHigh Energy Neutrino Detectors
- Weak Interactions and Neutrinos 2005, Delphi, Greece, June 2005, MINERvA
- Proton Driver Physics Study Workshop, Batavia, Illinois, October 2004, Neutrino Scattering Experiments: What do Oscillation Experiments need?
- NuFact04, Osaka, Japan, July 2004, α -YSuperbeam Experiments
- Summer Institute for NuFact04, Tokyo, Japan, July 2004, α -YHigh Energy Neutrino Detectors and Conventional Neutrino Beamlines
- Third Workshop on Neutrino-Nucleus Interactions in the few-GeV Region (NuINT04), Gran Sasso, Italy, March 2004, α -YOscillation Measurements with Calorimeters: Why does NuINT(04) Matter?
- Summer Institute for NuFact03, Shelter Island, New York, June 2003, α -YHigh Energy neutrino Detectors
- XXI International Symposium on Lepton and Photon Interactions at High Energies (Lepton Photon 2003), Batavia, IL, August 2003 "Future Experiments with Neutrino Superbeams, Betabeams, and Factories"
- American Physical Society/ Division of Particles and Fields Meeting 2003, Philadelphia, PA, April 2003 "From Megawatts to Kilotons: a Survey of Accelerator-Based Oscillation Experiments"
- X International Workshop on "Neutrino Telescopes", Venice, Italy, March 2003 "Prospects for Next Generation Long Baseline Oscillation Experiments"

Second International Workshop on Neutrino-Nucleus Interactions in the few-GeV Region (NuINT02) Irvine, California, December 2002 “Systematic uncertainties in Δm^2 from neutrino physics using calorimetric Neutrino Energy reconstruction”

Neutrinos and Implications for Physics Beyond the Standard Model, Stony Brook, New York, October 2002, ‘Prospects for Conventional Long Baseline Oscillation Experiments and Comparison with a Neutrino Factory”

International Workshop on Neutrinos and Subterranean Science (NESS 2002) Washington, DC, September 2002, “Overview of Detector Technologies for Long-baseline and Off-axis Oscillation Experiments”

Third Tropical Workshop on Particle Physics and Cosmology: Neutrinos, Branes and Cosmology, San Juan, Puerto Rico, August 2002, “Oscillation Measurements from Accelerators: A Global Status Report”

NuFact02, London, England, July 2002 “Experimental Summary of Oscillation Physics Working Group”

Summer Institute for NuFact’02, Abingdon, England, June 2002 “Neutrino Detectors”

Large Detector Proton Decay and Neutrino Workshop (NNN02), CERN, January 2002 “Many Detectors, One Beamline”

Workshop On Future Opportunities For Neutrino Physics, Vancouver Island, Canada, November 2001 “US Superbeam Projects”

Workshop On Future Opportunities For Neutrino Physics, Vancouver Island, Canada, November 2001 “Neutrino Scattering Physics at a Neutrino Factory”

Snowmass 2001: the future of Particle Physics, Snowmass, Colorado, July 2001 “Summary of Working Group E1: Neutrino Factories and Muon Colliders”

Snowmass 2001: Snowmass, Colorado July 2001: Internal E1 Working group talk: “Fermilab high energy superbeam study”

Snowmass 2001: Snowmass, Colorado July 2001: “E1 Working Group Midterm Plenary Talk”

Les HOUCHES EuroConference on Neutrino Masses and Mixings, Les Houches, France, June 2001 “MINOS”

5th Workshop on Heavy Quarks at Fixed Target, Rio de Janeiro, Brazil, October 2000 “Light Leptons/Heavy Quarks from Muon Storage Rings”

2nd International Workshop on Neutrino Beams and Instrumentation, September 2000, “Monte Carlo Results on Beam Monitoring Requirements in NUMI beamline locations”

NNN00-Fermilab Nucleon Decay and Neutrino Detector Workshop Fermilab, August 2000 “UNO Performance at a Neutrino Factory”

SLAC User’s Meeting, Palo Alto, July 2000 “Neutrino Physics at a Muon Storage Ring/Neutrino Source”

Fermilab User’s Meeting, Batavia, June 2000. “Neutrino Physics at a Muon Storage Ring/Neutrino Source”

6th ICFA / ECFA Workshop On Neutrino Factories Based On Muon Storage Rings, Monterey, May 2000. “Cost vs Mass for Oscillation Detectors”

6th ICFA / ECFA Workshop On Neutrino Factories Based On Muon Storage Rings, Monterey, May 2000. “Prospects for Charm Experiments at a Neutrino Factory”

6th ICFA / ECFA Workshop On Neutrino Factories Based On Muon Storage Rings, Monterey, May 2000. "Polarized Deep Inelastic Scattering at a Neutrino Factory"

American Physical Society Meeting 2000, Long Beach, April 2000. "Muon Storage Rings and Collider"

2000 Aspen Winter Conference On Particle Physics: Vistas On 21st Century Particle Physics, Aspen, January 2000. "Muon Storage Rings and Collider"

5th International Conference On Physics Potential And Development of Muon Colliders, San Francisco, December 1999. "Detector Construction Considerations from the Lyon Meeting"

International Workshop On Next Generation Nucleon Decay And Neutrino Detector, Stony Brook, NY, September 1999. "Summary of Detector and Beam Parameters Working Group from Lyon"

International Europhysics Conference On High-Energy Physics, Tampere, Finland, August 1999. "Neutrino Oscillations at NuTeV"

5th ICFA / ECFA Workshop On Neutrino Factories Based On Muon Storage Rings, Lyon, July 1999. "Summary of the Beams and Detectors Working Group"

5th ICFA / ECFA Workshop On Neutrino Factories Based On Muon Storage Rings, Lyon, July 1999. "Neutrino Oscillation Appearance Experiment using Nuclear Emulsion and Magnetized Iron"

5th International Conference On Physics Potential And Development Of Muon Colliders, San Francisco, December 1999 "Detector Construction Considerations from the Lyon Meeting"

American Physical Society Meeting of the Division of Particles and Fields, Los Angeles, January 1999 "Neutrino Oscillations at NuTeV"

1998 Workshop on Balloon-Borne and Space-Based Calorimetry, Lubbock, Texas, October 1998 "NuTeV Calorimetry through Thick and Thin"

Workshop on the Potential for Neutrino Physics at Future Muon Colliders, Brookhaven, August 1998 "QCD Prospects for neutrino experiments at a Muon Collider"

WEIN'98 Symposium, Santa Fe, June 1998 "A Measurement of $\sin^2 \theta_W$ in ν -Nucleon Scattering"

Moriond Conference les Arcs, March 1998 " α_s from Deep Inelastic Scattering Experiments"

Workshop on Physics at the First Muon Collider and at the Front End of a Muon Collider Batavia, November 1997 "Neutrinos at a Muon Collider: Too Much of a Good Thing?"

CTEQ Symposium at Fermilab Batavia, November 1996 "New and old measurements of α_s in Fixed-target DIS"

ICHEP Conference Warsaw, July 1996 "Testing QCD at Fermilab: 3 Structure Functions at Once"

Snowmass Workshop, June-July 1996 " α_s from the GLS Sum Rule" and "Summary of the Structure Functions Subgroup"

EPS Conference Brussels, July 1996 "A CCFR Measurement of R^ν "

Moriond Conference Les Arcs, March 1995 "A Measurement of $\alpha_s(Q^2)$ from the Gross Llewellyn Smith Sum Rule"

EPS Conference Marseilles, July 1993 “A Search for the Decays $K_L \rightarrow \pi^0 \ell^+ \ell^-$ ”

Invited Seminars, Colloquia, and Posters

DOE Science and Technology Review of Scientific User Facilities, July 2009, “MINERvA”
Fermilab Physics Advisory Committee Meeting, March 2009 “Near Term Neutrino Projects
Physics and Project Status (MINERvA, NOvA, MicroBooNE)”
Second Project X Physics Workshop, Batavia, Illinois, January 2008, MINERvA at
Project X: Scattering off Hydrogen and Deuterium
SLAC Experimental Seminar, May 2006, MINERvA or How Do Neutrinos Really Interact
Department of Energy Site Visit to Fermilab, May 2005 MINERvA: Goals, Progress,
Project
University of Chicago Lunch Seminar, December 2004, MINOS/MINERvA/NOvA: The
NuMI Program
HEP/Astrophysics Seminar, University of Michigan, October 2003, “From Megawatts to
Kilotons: Future Plans for Accelerator-Based Neutrino Oscillation Experiments”
Fermilab DOE Site Visit: March 2003: Poster for Proton Driver Upgrade
HEPAP + P5++ Meeting, Pittsburgh, PA, February 2003 “Facility Report: Neutrino
Superbeam with a Proton Driver”
Fermilab Physics Advisory Committee Meeting, November 2002, “Detector R& D for
experiments using the NUMI Beamline”
MiniBooNE Summer Student Lecture Series, Fermilab, July 2002, “Future Prospects for
Neutrino Experiments”
Neutrino Facilities Assessment Committee Meeting, July 2002, Chicago, IL, “Scientific
Potential of Superbeams for Underground Physics”
Cornell University Journal Club Seminar, June 2002 “Long Baseline Neutrino Oscilla-
tions: Where do we go from here?”
University of Illinois Seminar, April 2002, “A Departure from Prediction: $\sin^2 \theta_W$ at
NuTeV”
Accelerator Physics and Technology Seminar, Fermilab, April 2002, “Neutrino oscillation
measurements: Now and again - the status of the NUMI/MINOS project”
University Research Associates Meeting, April 2002 “Physics Results”
Fermilab Department of Energy Review, March 2002 “Physics Results”
Argonne National Labs HEP Seminar, March 2002 “Neutrino Superbeams”
Syracuse University Physics Department Colloquium, February 2002, “The Surprising
Status of the Neutrino”
University of Pittsburgh Seminar December 1999 “Neutrino Physics at a Muon Collider”
University of Texas at Austin Colloquium April 1999 “Good Things come in Small Pack-
ages or Neutrinos at Fermilab”
University of Texas at Arlington Colloquium April 1999 “Good Things come in Small
Packages or Neutrinos at Fermilab”
University of Illinois Seminar February 1999 “A Measurement of the Weak Mixing Angle
in Neutrino Nucleon Scattering”

Rutgers University Seminar February 1999 “A Measurement of the Weak Mixing Angle in Neutrino Nucleon Scattering”

Northwestern University Colloquium February 1999 “Good Things come in Small Packages or Neutrinos at Fermilab”

Notre Dame Colloquium January 1999 “Good Things come in Small Packages or Neutrinos at Fermilab”

Notre Dame Seminar January 1999 “A Measurement of the Weak Mixing Angle in Neutrino Nucleon Scattering”

Purdue University Calumet Colloquium November 1998 “Neutrinos: How can Something so Small tell us So Much?”

Stanford Linear Accelerator Center Seminar May 1998 “A New Measurement of $\sin^2 \theta_W$ in ν -Nucleon Scattering at Fermilab”

Research Progress Seminar at Lawrence Berkeley Laboratory May 1998 “A New Measurement of $\sin^2 \theta_W$ in ν -Nucleon Scattering at Fermilab”

Enrico Fermi Institute Seminar, University of Chicago April 1998 “New Results from NuTeV”

Brown University Colloquium March 1998 “Neutrino Scattering at Fermilab”

University of Illinois at Chicago Colloquium December 1997 “Neutrinos: How can Something so Small tell us So Much?”

University of Chicago Lunch Seminar July 1997 “A NuTeV Progress Report”

Fermilab User’s Meeting July 1997 “QCD at Fermilab’s Fixed Target Program”

University of Illinois Seminar November 1996 “Testing QCD at Fermilab: 3 Structure Functions at Once”

Kansas State University HEP seminar February 1996 “A Measurement of $\alpha_s(Q^2)$ from the Gross Llewelyn Smith Sum Rule”

Argonne Nat’l Labs HEP seminar January 1996 “A Measurement of $\alpha_s(Q^2)$ from the Gross Llewelyn Smith Sum Rule”

Michigan State University HEP seminar October 1995 “A Measurement of $\alpha_s(Q^2)$ from the Gross Llewelyn Smith Sum Rule”

Research Progress Seminar at Lawrence Berkeley Laboratory June 1995 “A Measurement of $\alpha_s(Q^2)$ from the Gross Llewelyn Smith Sum Rule”

Stanford Linear Accelerator Seminar June 1995 “A Measurement of $\alpha_s(Q^2)$ from the Gross Llewelyn Smith Sum Rule”

University of Rochester HEP seminar January 1994 “A Search for the Decays $K_L \rightarrow \pi^0 \ell^+ \ell^-$ ”

Research Progress Seminar at Lawrence Berkeley Laboratory January 1994 “A Search for the Decays $K_L \rightarrow \pi^0 \ell^+ \ell^-$ ”

Stanford Linear Accelerator Center Seminar December 1993 “A Search for the Decays $K_L \rightarrow \pi^0 \ell^+ \ell^-$ ”

Cornell University HEP seminar October 1993 “A Search for the Decays $K_L \rightarrow \pi^0 \ell^+ \ell^-$ ”

SACLAY HEP seminar July 1993 “Resultats Recents de L’Experience FNAL 799” (Joint Seminar with K.S. McFarland)

Fermilab HEP seminar June 1993 “A Search for the Decays $K_L \rightarrow \pi^0 \ell^+ \ell^-$ ”

Service

Outreach

- Lecture on Fermilab Neutrino Experiments, March 2010, given as part of Fermilab's Ask a Scientist Program
- Lecture at Rockford Career Fair, October 2009, "Life as a Physicist" given to about 500 kids ranging in ages between 8 and 14 years old
- Public Lecture on Fermilab Neutrino Experiments, July 2009, "The Fastest Trip between Fermilab and Minnesota" given at IIT campus in conjunction with NuFact09 conference
- Contributor to the book *Motherhood, the Elephant in the Laboratory*, edited by Emily Monosson, Cornell University Press, May 2008
- 1999 to present: Regular speaker to visiting High School groups at Fermilab
- 2004 to present: regular participant in Argonne Lunch for Women High School Students (once a year)
- Public Lecture on Fermilab Neutrino Experiments, December 2006, "The Fastest Trip between Fermilab and Minnesota"
- 2005: participation in Quantum Diaries see <http://www.interactions.org/quantumdiaries> and links therein
- Speaker at Witherell Symposium, July 2005, "Life at Fermilab"
- Keynote speaker at PARTICLE Day, May 2005, University of Rochester "From Illinois to Minnesota in 1/400 of a Second"
- Panelist at Einstein Day, December 2005, Francis W. Parker School, Chicago Illinois

Advisory Activities

- 2009-10: Lederman Fellow Selection Committee, Stephen Pordes Chair
- 2009-10: Member of Scientist Diversity Committee, Steve Wolbers Chair
- Reviewer for Fermilab Reviews of the COUPP Experiment and Installation
- Reviewer for Fermilab Preliminary Director's Review of MicroBooNE, December 2009
- 2008-9: Lederman Fellow Selection Committee, Stephen Pordes Chair
- 2008: Panofsky Prize Selection Committee member, Harry Nelson Chair
- 2007: Panofsky Prize Selection Committee member, David MacFarlane Chair
- 2007-8: Lederman Fellow Selection Committee, Vaia Papadimitriou Chair
- 2006: Committee on Hiring and Retention of Scientific Staff, Kathy Newman-Holmes Chair
- 2007: Fermilab Steering Committee Subgroup on Neutrinos, Andy Lankford Chair

- Fermilab Long Range Planning Subcommittee on Neutrinos, Gary Feldman Chair
- Reviewer on DOE/NSF Review of LHC Maintenance and Operations, Software and Computing, February 2008
- Reviewer for Fermilab Preliminary Directors Review of DECam, October 2007
- NSERC Research Grants Program Reviewer, 2003, 2004, 2005
- NSF EPP Grant Panelist, 2001, 2002, 2003, 2005
- Referee for Phys. Rev. Lett.
- Referee for Phys. Rev. D
- Referee for Nucl. Instr. Meth.

Conference Sessions Chaired or Organized

- Member, Scientific Program Committee, NuFact10, Mumbai, India, October 2010
- Member, Organizing Committee, 2009 International Neutrino Summer School, Batavia, July 2009
- Member, International Organizing Committee, NuFact08, Benasque, Spain, June 2008
- Plenary session on Neutrino Cross Section Experiments, NUFAC07, Okayama, Japan, August 2007
- Member, Scientific Program Committee, NUFAC07, Okayama, Japan, August 2007
- Member, Scientific Program Committee, NUFAC06, Irvine California, August 2006
- Member, International Organizing Committee, NUFAC04 Summer Institute, Tokyo, Japan, July 2004
- Member, Scientific Program Committee, NUFAC04, Kyoto Japan, July 2004
- Session on Auxiliary Measurements for Future Neutrino Experiments, Weak Interactions and Neutrinos 2003 (WIN 2003), Lake Geneva, Wisconsin, October 2003
- Member, Organizing Committee, NUFAC03 Summer Institute, Shelter Island, New York, July 2003
- Member, Scientific Program Committee, NUFAC03, New York City, New York, July 2003
- Local Organizing Committee, NUFAC03, New York City, New York, July 2003
- Neutrino Oscillations Working Group Convenor, NuFact02, London, July 2002
- Working group to determine Detector R& D for a NuMI Off-Axis neutrino oscillation Experiment, September 2001 to November 2002
- Far Detector Working Group Convenor, “New Initiatives for the NuMI Neutrino Beam”, Fermilab, May 2002
- Working Group Convenor for Snowmass 2001: Working group on Neutrino Factories and Muon Colliders, Snowmass, Colorado, July 2001

- Working group on Oscillation Measurements to be made at a neutrino Superbeam, Fermilab, September 2000 to March 2001
- Convenor for Neutrino Beam Monitoring Talks at Neutrino Beam Instrumentation 2000 workshop, Fermilab, October 2000
- Working group on Oscillation Measurements to be made at a Neutrino Factory, Fermilab, September 1999-March 2000.
- ECFA/ICFA Workshop on Neutrino Factories Based on Muon Storage Rings: Detector Session Lyon, France, July 1999.
- Balloon and Space-Based Calorimetry Conference, Hadron Calorimetry session, Lubbock, Texas, October 1998.
- Neutrino Experiments at a Muon Storage Ring, Deep Inelastic Scattering Session, Brookhaven, NY, August 1998.
- 1996 DPF / DPB Summer Study on New Directions for High-Energy Physics (Snowmass 96) Structure Functions subgroup, July 1996.